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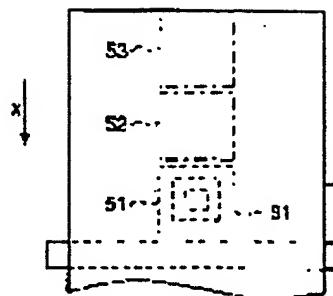
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(21)Application number : **2000-186391** (71)Applicant : **TOSHIBA TEC CORP**

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(54) PRINTER WITH RF-ID READ/WRITE FUNCTION



(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a printer in which read/write of an RF-ID tag can be carried out immediately upon delivery of a print command regardless of the position where the RF-ID tag is buried relative to a label.

SOLUTION: The printer being fed with a sheet having an RF-ID tag at a part of a label comprises an antenna 31 for reading/writing an RF-ID, and fixing mechanisms 51-53 which can vary the fixing position of the antenna along the carrying direction of sheet.

LEGAL STATUS

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CLAIMS

[Claim]

[Claim 1] The printer with an RF-ID reading write-in function characterized by providing the write-in functional means which writes user data in a part of label in the printer by which the form which has an RF-ID tag is supplied at the above-mentioned RF-ID tag from the antenna for RF-ID reading writing, and this antenna for RF-ID reading writing, and the read-out functional means which reads the user data currently written in the above-mentioned RF-ID tag.

[Claim 2] The printer with an RF-ID reading write-in function characterized by providing the installation device in which adjustable is possible along the conveyance orientation of the above-mentioned form for the installation position of the antenna for RF-ID reading writing, and this antenna in the printer by which the form which has an RF-ID tag on a part of label is supplied.

[Claim 3] In the printer by which the form which has an RF-ID tag on a part of label is supplied The antenna for RF-ID reading writing, and the printing section which prints on the above-mentioned label, The 1st write-in means which writes in the above-mentioned RF-ID tag with the above-mentioned antenna for RF-ID reading writing before the printing operation which prints on the above-mentioned label in this printing section, The printer with an RF-ID reading write-in function characterized by providing the 2nd write-in means which writes in at the above-mentioned RF-ID tag during the printing operation which is printing on the above-mentioned label in the above-mentioned printing section.

[Claim 4] The write-in means of the above 1st or the write-in means of the above 2nd is the printer with an RF-ID reading write-in function of the claim 3 publication characterized by the selectable thing with a software command.

[Claim 5] The write-in means of the above 1st or the write-in means of the above 2nd is the printer with an RF-ID reading write-in function of the claim 3 publication characterized by being automatically chosen based on the installation position of the above-mentioned antenna, and the relative position of the RF-ID tag on the above-mentioned label.

[Claim 6] In the printer by which the form which has an RF-ID tag on a part of label is supplied The antenna for RF-ID reading writing, and the printing section which prints on the above-mentioned label, A write-in means to write in at the above-mentioned RF-ID tag during the printing operation which is printing on the above-mentioned label in the above-mentioned printing section, The printer with an RF-ID reading write-in function characterized by providing the adjustable means which carries out adjustable [of the end position which ends the starting position which starts a write-in operation of the data to the above-mentioned RF-ID tag according to the above-mentioned RF-ID tag positional information on the above-mentioned label, and a write-in operation].

[Claim 7] In the printer by which the form which has an RF-ID tag on a part of label is supplied The antenna for RF-ID reading writing, and the printing section which prints on the above-mentioned label, A write-in means to write in at the above-mentioned RF-ID tag during the printing operation which is printing on the above-mentioned label in the above-mentioned printing section, The printer with an RF-ID reading write-in function characterized by providing a means to print an error pattern on a label after carrying out

back feed of the above-mentioned form, when the writing to the above-mentioned RF-ID tag goes wrong by this write-in means.

[Claim 8] In the printer by which the form which has an RF-ID tag on a part of label is supplied The antenna for RF-ID reading writing, and the printing section which prints on the above-mentioned label, An R/W means to write the data to the above-mentioned RF-ID tag with the above-mentioned antenna, The feed means which carries out back feed to the printing starting position to the above-mentioned label after the R/W to the above-mentioned RF-ID by this R/W means finishes, When the R/W by the above-mentioned R/W means is normal The printer with an RF-ID reading write-in function which is made to start the printing to the above-mentioned label by the above-mentioned printing section, and is characterized by providing a means to make an error report when the R/W by the above-mentioned R/W means is a failure.